



**Braun Intertec Corporation**  
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*Engineers and Scientists Serving  
the Built and Natural Environments*

September 10, 1997

Project EARX-97-0466  
Report 05-097-2341

Mr. Steve Sayers  
Polymaster, Inc.  
10431 Lexington Drive  
Knoxville, Tennessee 37939

Dear Mr. Sayers:

Re: Computed Thermal Resistance (R-factor) for your 8" x 12" x 16" masonry units, per your Purchase Order Number 1939.

**Item:** 7 5/8" High x 7 5/8" Thick x 15 7/8" Long, 2-Cell Concrete Masonry Unit  
7 5/8" High x 11 5/8" Thick x 15 7/8" Long, 2-Cell Concrete Masonry Unit  
1 3/8" Face Shell, 1 1/4" - 1 3/8" Web Thickness. Density - 140 pcf.

**Cell Fill:** Polymaster R501 Plastic Form

**Test Ref.:** Braun Intertec Report Number 07-016-1575, ASTM C236 Steady State Thermal Conductance Test of an 8' x 12" CMU Wall, 8" x 8" x 16" Units with Cells Filled with Polymaster Plastic Foam ( $d = 0.65$ ). Overall R-factor - 11.05.

### **R-Factors**

Computed thermal resistance of the 8" x 12" x 16", 140 pcf unit with cells filled with polymaster R501 plastic foam is **19.1** (ufactor = 0.052).

Computed thermal resistance of the 8" x 8" x 16", 140 pcf unit with cells filled with polymaster R501 plastic foam is **10.5** (ufactor = 0.095).